B·R·I·N·K·S
H O F E R
G I L S O N
& L I O N E

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAIL STOP AMENDMENT
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	)
	) Group Art Unit 2676
Edy Liongosari et al.	)
	) Examiner: Aaron M. Richer
Serial No.: 10/074,384	)
	) CASE NO. 10022/296
Filed: February 12, 2002	)
	)
For: DISPLAY OF DATA ELEMENT INDICIA BASED	)
ON DATA TYPES	)

RECEIVED

AUG 2 6 2004

Technology Center 2600

Sir:

Attached is/are:

☒ Information Disclosure Statement, PTO Form 1449, and cited references;

☒ Return Receipt Postcard

Fee calculation:

☐ No additional fee is required.

☐ Small Entity.

☐ An extension fee in an amount of $_____ for a _____-month extension of time under 37 C.F.R. § 1.136(a).

☒ A petition or processing fee in an amount of $180.00 under 37 C.F.R. § 1.17(p).

☐ An additional filing fee has been calculated as shown below:

					Small Entity		or	Not a Small Entity	
	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra	Rate	Add'l Fee		Rate	Add'l Fee
Total		Minus			x $9=			x $18=	
Indep.		Minus			x 43=			x $86=	
First Presentation of Multiple Dep. Claim					+$145=			+ $290=	
					Total	$		Total	$

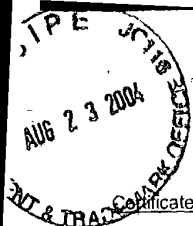**Fee payment:**

☒ A check in the amount of $180.00 to cover the surcharge for filing of the IDS is enclosed.

☐ Please charge Deposit Account No. 23-1925 in the amount of $____. A copy of this Transmittal is enclosed for this purpose.

☐ Payment by credit card in the amount of $_____ (Form PTO-2038 is attached).

☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925. A copy of this Transmittal is enclosed for this purpose.

AUG 18, 2004
Date

Respectfully submitted,

Sanders N. Hillis (Reg. No. 45,712)

2676 #

71

Our Case No.: 10022/296 (01352-00/US)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	
Edy Liongosari et al.	Examiner: Aaron M. Richer
Serial No.: 10/074,384	Group Art Unit No.: 2676
Filing Date: February 12, 2002	
For: DISPLAY OF DATA ELEMENT INDICIA BASED ON DATA TYPES	

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully

requested that this Fourth Supplemental Information Disclosure Statement be entered

and the documents listed below and on the attached Form PTO-1449 be considered by

the Examiner and made of record. Copies of the listed documents required by

37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

The references now cited are the following:

No.	Date	Name
US 6,446,076 B1	09/03/2002	Burkey et al.
US 5,506,984	04/09/1996	Miller
WO 97/38376	10/16/1997	Flair Technologies, Ltd.

OTHER ART - NON-PATENT LITERATURE DOCUMENTS
Mukherjea, S., Foley, J.D., "Visualizing the World-Wide Web with the Navigational View Builder," Computer Networks & ISDN System, Special Issue on 3rd Int. Conf. On the World-Wide Web '95, April 1995, Darmstadt, Germany.
Lamping, J., Rao, R., Pirolli, P., "A Focus+Context Technique Based on Hyperbolic Geometry for Visualizing Large Hierarchies," pp. 1-8, Reprinted From: Proc. ACM SIGCHI Conf. On Human Factors in Computing Systems, Denver, May 1995, ACM.
Robertson, G.G., Mackinlay, J.D., Card, S.K., "Cone Trees: Animated 3D Visualizations of Hierarchical Information," pp. 189-193, Proc. Conf. Human Factors in Computing Systems (CHI'91) © ACM 1991.
Kumar, H.P., Plaisant, C., Shneiderman, B., "Browsing Hierarchical Data with Multi-Level Dynamic Queries and Pruning," pp. 1-6 of 24, and 22 of 24; Int. Jour. Human-Computer Stud., 1996, 46(1); URL: ftp://ftp.cs.umd.edu/pub/hcil/Reports-Abstracts-Bibliography/3474
Hara, Y., Keller, A.M., Rathmann, P.K., Wiederhold, G., "Implementing Hypertext Database Relationships through Aggregations and Exceptions," pp. 1-4, Stanford Technical Report, 1991.
Miriyala, K., Hornick, S.W., Tamassia, R., "An Incremental Approach to Aesthetic Graph Layout," Proc. 6th Int. Workshop on Computer-Aided Software Engineering, CASE '93, 1993.
Roth, S.F., Kolojejchick, J., Mattis, J., Goldstein, J., "Interactive Graphic Design Using Automatic Presentation Knowledge," pp. 112-117 & p. 476, Proc. Of CHI'94 Conf. Boston, April 1994 © 1994 ACM.
Mackinlay, J., "Automating The Design of Graphical Presentations of Relational Information," ACM, pp. 110-141, ACM Transactions on Graphics, Vol. 5, No. 2, April 1986.
Ichimura, S. and Matsushita, Y., "Another Dimension to Hypermedia Access," pp. 63-72, Hypertext '93 Proceedings, © ACM 1993

In accordance with 37 C.F.R. § 1.97(g),(h), this Fourth Supplemental Information

Disclosure Statement is not to be construed as a representation that a search has been

made and is not to be construed to be an admission that the information cited is, or is

considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

OTHER ART - NON-PATENT LITERATURE DOCUMENTS

A. Voss, K. Nakata, M. Juhnke, "Concept Indexing," GROUP 99 Phoenix, Arizona, USA, 14-17 November, 1999, Copyright ACM 1999, pp. 1-10, XP002255123

M. Lee and K. Foong, "A Knowledge Acquisition Framework for an Intelligent Decision-Support System," Proceedings of the 1994 Second Australian and New Zealand Conference on Brisbane, QLD, Australia, 29 Nov. - 2 Dec. 1994, pp. 432-436, XP010136758

N. Lavrac and I. Mozetic, "Second generation knowledge acquisition methods and their application to medicine," Deep Models for Medical Knowledge Engineering, E. Keravnou Editor, © 1992 Elsevier Science Publishers BV.

Delany, P., and Landow, G.P., "Hypermedia and Literary Studies," pp. 60-61, 71-72, 74-75, 99, 290-291; The MIT Press, Cambridge Mass. And London, England, 1991

Findler, N.V., "Associative Networks: Representation and Use of Knowledge by Computers," pp. xv-xvi, 51-54, 62-63, 179-180; Academic Press, New York, 1979.

Date, C.J., "An Introduction to Database Systems," pp. 38-39, 48-52, 491-493, 792-797; Vol. I, Fifth Ed., Addison-Wesley System Programming Series, © 1990 Addison-Wesley Publishing Co., Inc.

Screenshots from Visio 4.0 for Microsoft Windows, © 1991-1995 Vision Corporation.

Poulovassilis, A. and Levene, M., "A Nested-Graph Model for the Representation and Manipulation of Complex Objects," pp. 35-68, ACM Transactions on Information Systems, Vol. 12, No. 1, January 1994.
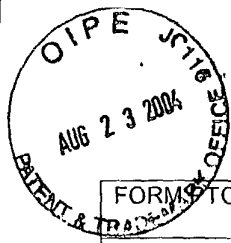
Wang, B., Hitchcock, P., Holden, T., "Linking Object Oriented Database and Hypertext to Support Software Documentation," pp. 149-156, ACM SIGDOC '92, Proc. 10th Ann. Int. Conf. on Systems Documentation, © ACM 1992.

Baecker, H.D., "Garbage Collection for Virtual Memory Computer Systems," pp. 981-986, Comm. of the ACM, Vol. 15, No. 11, Nov. 1972 © 1972, Association for Computing Machinery, Inc.

Swaminathan, K., "RA: A Memory Organization to Model the Evolution of Scientific Knowledge," pp. 23-30, 62-79, COINS Technical Report 90-80, Sept. 1990.

Halasz, F.G., Moran, T.P., Trigg, R.H., "NoteCards in a Nutshell," pp. 45-51, Proceedings of CHI'87, © 1987 ACM

Andrews, K., "Visualising Cyberspace: Information Visualisation in the Harmony Internet Browser," pp. 97-104, Proc. Of First IEEE Symposium on Information Visualization, Atlanta, GA, Oct. 1995.

FORM PTO-1449		SERIAL NO. 10/074,384		CASE NO. 1002/296
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		FILING DATE February 12, 2002		GROUP ART UNIT 2676
(use several sheets if necessary)		APPLICANT(S): Edy Liongosari et al.		

REFERENCE DESIGNATION   U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER Number-Kind Code (if known)	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	D1	6,446,076 B1	09/03/2002	Burkey et al.	707/102	11/19/1998
	D2	5,506,984	04/09/1996	Miller	395/600	06/30/1993

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER Number-Kind Code (if known)	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES OR NO
	D3	WO 97/38376	10/16/1997	WIPO	G06F 17/30	N/A

EXAMINER INITIAL		OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.
	D4	A. Voss, K. Nakata, M. Juhnke, "Concept Indexing," GROUP 99 Phoenix, Arizona, USA, 14-17 November, 1999, Copyright ACM 1999, pp. 1-10, XP002255123
	D5	M. Lee and K. Foong, "A Knowledge Acquisition Framework for an Intelligent Decision-Support System," Proceedings of the 1994 Second Australian and New Zealand Conference on Brisbane, QLD, Australia, 29 Nov. - 2 Dec. 1994, pp. 432-436, XP010136758
	D6	N. Lavrac and I. Mozetic, "Second generation knowledge acquisition methods and their application to medicine," Deep Models for Medical Knowledge Engineering, E. Keravnou Editor, © 1992 Elsevier Science Publishers BV.
	D7	Delany, P., and Landow, G.P., "Hypermedia and Literary Studies," pp. 60-61, 71-72, 74-75, 99, 290-291; The MIT Press, Cambridge Mass. And London, England, 1991
	D8	Findler, N.V., "Associative Networks: Representation and Use of Knowledge by Computers," pp. xv-xvi, 51-54, 62-63, 179-180; Academic Press, New York, 1979.
	D9	Date, C.J., "An Introduction to Database Systems," pp. 38-39, 48-52, 491-493, 792-797; Vol. I, Fifth Ed., Addison-Wesley System Programming Series, © 1990 Addison-Wesley Publishing Co., Inc.
	D11	Screenshots from Visio 4.0 for Microsoft Windows, © 1991-1995 Vision Corporation.
	D12	Poulovassilis, A. and Levene, M., "A Nested-Graph Model for the Representation and Manipulation of Complex Objects," pp. 35-68, ACM Transactions on Information Systems, Vol. 12, No. 1, January 1994.
	D13	Wang, B., Hitchcock, P., Holden, T., "Linking Object Oriented Database and Hypertext to Support Software Documentation," pp. 149-156, ACM SIGDOC '92, Proc. 10th Ann. Int. Conf. on Systems Documentation, © ACM 1992.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Rev. Dec.-99
R:\Accenture 10022\296\4TH Suppl IDS 1449 8-18-04.doc

FORM PTO-1449 AUG 2 3 2004		SERIAL NO. 10/074,384	CASE NO. 1002/296
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		FILING DATE February 12, 2002	GROUP ART UNIT
(use several sheets if necessary)		APPLICANT(S): Edy Liongosari et al.	

RECEIVED AUG 2 6 2004 Technology Center 2600

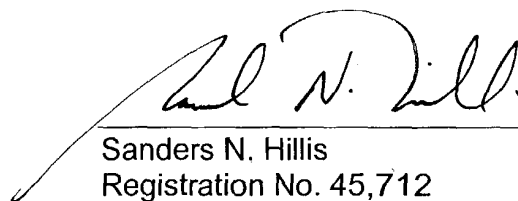| EXAMINER INITIAL		OTHER ART – NON PATENT LITERATURE DOCUMENTS (Include name of author, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date page(s), volume-issue number(s), publisher, city and/or country where published.)
	D14	Baecker, H.D., "Garbage Collection for Virtual Memory Computer Systems," pp. 981-986, Comm. of the ACM, Vol. 15, No. 11, Nov. 1972 © 1972, Association for Computing Machinery, Inc.
	D15	Swaminathan, K., "RA: A Memory Organization to Model the Evolution of Scientific Knowledge," pp. 23-30, 62-79, COINS Technical Report 90-80, Sept. 1990.
	D16	Halasz, F.G., Moran, T.P., Trigg, R.H., "NoteCards in a Nutshell," pp. 45-51, Proceedings of CHI'87, © 1987 ACM
	D17	Andrews, K., "Visualising Cyberspace: Information Visualisation in the Harmony Internet Browser," pp. 97-104, Proc. Of First IEEE Symposium on Information Visualization, Atlanta, GA, Oct. 1995.
	D18	Mukherjea, S., Foley, J.D., "Visualizing the World-Wide Web with the Navigational View Builder," Computer Networks & ISDN System, Special Issue on 3rd Int. Conf. On the World-Wide Web '95, April 1995, Darmstadt, Germany.
	D19	Lamping, J., Rao, R., Pirolli, P., "A Focus+Context Technique Based on Hyperbolic Geometry for Visualizing Large Hierarchies," pp. 1-8, Reprinted From: Proc. ACM SIGCHI Conf. On Human Factors in Computing Systems, Denver, May 1995, ACM.
	D20	Robertson, G.G., Mackinlay, J.D., Card, S.K., "Cone Trees: Animated 3D Visualizations of Hierarchical Information," pp. 189-193, Proc. Conf. Human Factors in Computing Systems (CHI'91) © ACM 1991.
	D21	Kumar, H.P., Plaisant, C., Shneiderman, B., "Browsing Hierarchical Data with Multi-Level Dynamic Queries and Pruning," pp. 1-6 of 24, and 22 of 24; Int. Jour. Human-Computer Stud., 1996, 46(1); URL: ftp://ftp.cs.umd.edu/pub/hcil/Reports-Abstracts-Bibliography/3474
	D22	Hara, Y., Keller, A.M., Rathmann, P.K., Wiederhold, G., "Implementing Hypertext Database Relationships through Aggregations and Exceptions," pp. 1-4, Stanford Technical Report, 1991.
	D23	Miriyala, K., Hornick, S.W., Tamassia, R., "An Incremental Approach to Aesthetic Graph Layout," Proc. 6th Int. Workshop on Computer-Aided Software Engineering, CASE '93, 1993.
	D24	Roth, S.F., Kolojejchick, J., Mattis, J., Goldstein, J., "Interactive Graphic Design Using Automatic Presentation Knowledge," pp. 112-117 & p. 476, Proc. Of CHI'94 Conf. Boston, April 1994 © 1994 ACM.
	D25	Mackinlay, J., "Automating The Design of Graphical Presentations of Relational Information," ACM, pp. 110-141, ACM Transactions on Graphics, Vol. 5, No. 2, April 1986.
	D26	Ichimura, S. and Matsushita, Y., "Another Dimension to Hypermedia Access," pp. 63-72, Hypertext '93 Proceedings, © ACM 1993

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

A fee as set forth in 37 C.F.R. § 1.17(p) in the amount of $180.00 is enclosed herewith. Should the enclosed check be insufficient, omitted or should any additional fees be deemed necessary under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these material, the Commissioner is hereby authorized to deduct said fees from Brinks Hofer Gilson & Lione Deposit Account No. 23-1925. A duplicate copy of this document is enclosed.

Applicant(s) respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

Sanders N. Hillis
Registration No. 45,712
Attorney for Applicant(s)

BRINKS HOFER GILSON & LIONE
One Indiana Square, Suite 1600
Indianapolis, IN 46204
(317) 636-0886